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Technical Report No. 48.403.15.0407.01

Rev. 00

Dated :2015-09-08

Client: STARMATRIX GROUP INC.
10F NO. 59, Zhongshan West Road, Zhenjiang, Jiangsu, P.R.China

Manufacturing place: STARMATRIX GROUP INC.
10F NO. 59, Zhongshan West Road, Zhenjiang, Jiangsu, P.R.China

Test subject: Product: INVERTER/CLEVER POOL
Type : CLEVER-POOL/220V, CLEVER-POOL M/220V, CLEVER-POOL/380V

Test specification: IEC 60529:1989+A1:1999

Purpose of examination: • Verification enclosure protection IP65 according to IEC 60529.

Test result: PASS

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1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use:
INVERTER/CLEVER POOL used to control the speed of swimming pool pump or household pump for reducing the energy consumption.

1.2 Technical Data

Model:	CLEVER-POOL/220V, CLEVER-POOL M/220V, CLEVER-POOL/380V
Rated Voltage:	230V~ (CLEVER-POOL/220V, CLEVER-POOL M/220V) 380V~ (CLEVER-POOL/380V)
Rated Frequency:	50/60Hz
Rated Power Output:	1500W(CLEVER-POOL/220V) 2200W(CLEVER-POOL M/220V) 3750W(CLEVER-POOL/380V)
Protection Class:	Class I
Protection Against Moisture:	IP65
Supply connection:	Flexible cord with plug

2 Order

2.1 Date of Purchase Order, Customer's Reference

2015-06-24, 2015-07-31

2.2 Receipt of Test Sample, Location

TÜV SÜD Certification and Testing (China) Co., Ltd.
10 Huaxia Road (M), Dongting, Wuxi, 214100, Jiangsu, P.R.China

2.3 Date of Testing

2015-07-14, 2015-09-08

2.4 Location of Testing

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Branch.
No. 1999, Duhui Road, Shanghai, 201108, P. R. China

3 Test Results

Clause	Description	Verdict (P/F)
12	IP6X protection against access to hazardous parts	P
13.5	IP6X protection against solid foreign objects	P
14.2.5	IPX5 protection against water	P

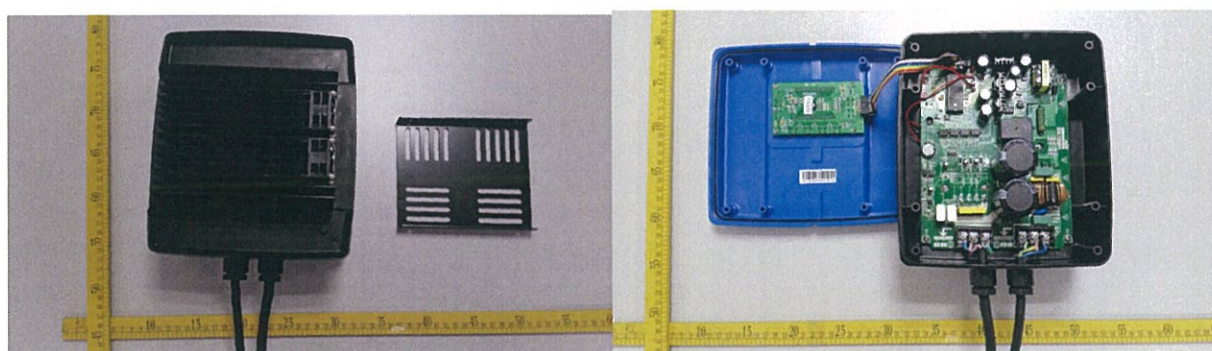
After the test, the electric strength test performed as below

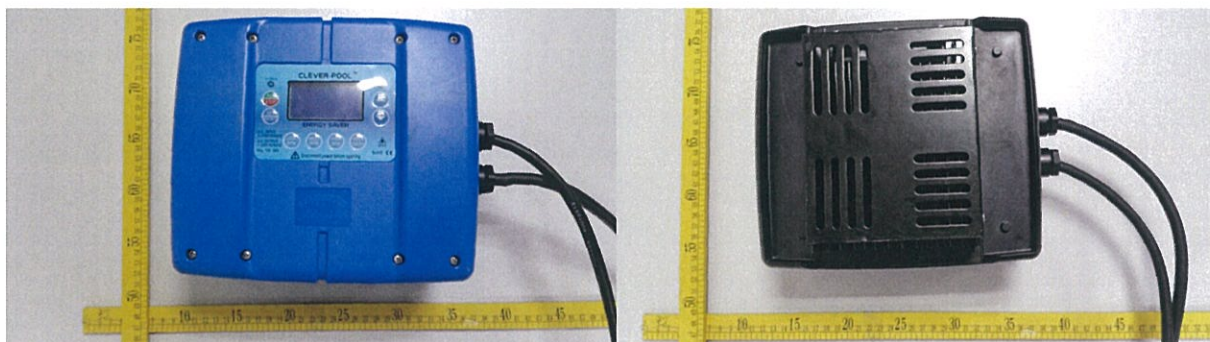
Part	Test voltage(V)	Verdict (P/F)
L/N-accessible earthing parts	1250	P
L/N-accessible plastic parts	3000	P

4 Remark

- 4.1 During the IP6X test, the extraction rate ≤ 60 volumes/hour, test duration 2 h.
- 4.2 During the IPX5 test, the distance from the nozzle and appliance is 2.5m, test duration 3 min.
- 4.3 The tests are performed on model CLEVER-POOL/220V, model CLEVER-POOL/220V, CLEVER-POOL M/220V, CLEVER-POOL/380V these model with same enclosure construction and which dimension is also same.

5 Photographs





TÜV SÜD Certification and Testing (China) Co., Ltd
TÜV SÜD Group

Engineer:

Xianfeng NI
Project Handler



Technical Report checked:

Qifeng GU
Designated Reviewer